

Business Statistics (QUA 207) Second Term (2020/2021) (1442H)

Course description

The course basically deals with inferential statistics, which will be the focus of the course. The topics covered in the course include Central limit theorem and sampling distribution; statistical inference involving means, proportions; ANOVA; Chi-Square Tests; and simple regression.

Course objectives

The main objective of this course is to provide basic knowledge about inferential statistics for the purpose of making effective business decisions.

The objectives of the course can be sated as follows:

- Understand the concept of the sampling distribution.
- Understand the importance of the Central Limit Theorem.
- Construct and interpret confidence interval estimates for sample statistics.
- Compute probabilities related to sample statistics.
- Determine the sample size necessary to develop confidence interval estimate for a parameter.
- Learn how to use hypothesis testing to test parameters.
- Compare the parameters of two populations.
- Compare the means of two and more than two populations.
- Learn when to use the chi-square test for contingency tables.
- Learn to use regression analysis and evaluate its assumptions.
- Use software programs (such as SPSS or Microsoft Excel)

<u>Required Materials (More Information on Page: 5)</u>

David M. Levine, Kathryn A. Szabat, David F. Stephan: Business Statistics: A First Course, 7th Global Edition, Pearson.

Textbook ISBN-13: 978-1-292-09593-6

MyLab Statistics: You are required to purchase access to MyLab Statistics, if you fail to do so you will lose up to 20% of total course credit.

Required Chapters: 7, 8, 9, 10, 11, and 12

<u>Study Plan</u>

- In MyLab Statistics, each student will complete an individualized Study Plan that reflects their progress through the course material.
- Each **Section/ Chapter** of the textbook covered in class is associated with up to 4-6 Objectives, each objective is worth one Mastery Point.
- Each Objective may be practiced by using the <u>Practice button in the Study Plan</u>. You will be graded based on the number of mastery points earned and you can earn mastery points by successfully taking a Quiz Me.
- If you are having trouble with a particular question, while you are in the problem, you may want to click Help Me Solve This, View an Example, or Textbook Pages.
- If you still need help, please post a question on the Discussion Forum for the assigned Chapter. Remember, working study Plan problems is the best preparation for the exams.



Homework Assignment (10%)

- The assignments are drawn from the problems at the end of each textbook chapter and practice problems. You should correctly answer each question **prior to the posted due date**.
- Homework problems that are attempted and submitted will NOT be accepted.
- Make sure you perform well as possible on the Homework!
- Evaluation of the homework will be based on the best 5 out of 6.

Homework Schedule (Wate & Feinale)						
Homework	Start			E	nd (Due Date	es)
Ch7		21/01/2021			13/02/2021	
Ch8		31/01/2021			20/02/2021	
Ch9(1)		18/02/2021			6/03/2021	
Ch9(2)	Thursday	04/03/2021	6:00pm	Saturday	20/03/2021	11:59pm
Ch10		18/03/2021			10/04/2021	
Ch11		08/04/2021			24/04/2021	
Ch12		11/04/2021			24/04/2021	

Homework Schedule (Male & Female)

Quizzes (10%)

- Quizzes are given based on the timetable below "Quizzes Schedule". Students are expected to work on quizzes individually.
- These quizzes are provided as an aid for preparing for the midterm and the final exam.
- The quiz will contain 8-15 questions and you will only have 30 minutes to take the quiz.
- The instructor reserves the right to utilize whatever format (true-false, multiple choice, fill in the blank, essay/short answer) or combination of formats he\she deems necessary and in the students' best interest.
- There is no make-up for missed quizzes, you only have one attempt and your overall quizzes evaluation will be based on the best 4 out of 6 quizzes.

Quillies benedule (male & Tenale)						
Quizzes	Day	Date	Start	End		
Ch7	Sunday	14/02/2021	8:00pm	10:00pm		
Ch8	Sunday	21/02/2021	8:00pm	10:00pm		
Ch9	Sunday	28/02/2021	8:00pm	10:00pm		
Ch10	Saturday	27/03/2021	8:00pm	10:00pm		
Ch11	Sunday	11/04/2021	8:00pm	10:00pm		
Ch12	Sunday	18/04/2021	8:00pm	10:00pm		

Quizzes Schedule (Male & Female)

<u>Exams</u>

- There shall be **three** examinations given during this course, **two midterms and a final** examination.
- The 1^{st} midterm is the 8^{th} week-and the 2^{nd} is the 11^{th} week of the term.
- The instructor reserves the right to utilize whatever format (true-false, multiple choice, fill in the blank, essay/short answer) or combination of formats he\she deems necessary and in the students' best interest.
- There is no make-up for missed Midterm exams and Final exams. Students are expected to take the exams during the week they are given.
- Remember, you only have one attempt and all midterm/final exams are closed book!



Male section								
Exam	Day	Date	From	То	Points			
First Midterm	Sunday	07/03/2021	12:00pm	01:30pm	20%			
Second Midterm	Sunday	28/03/2021	12:00pm	01:30pm	20%			
Final Exam	Ba	Based on University Schedule						

Exam	Day	Date	From	То	Points
First Midterm	Sunday	07/03/2021	12:00pm	01:30pm	20%
Second Midterm	Sunday	28/03/2021	12:00pm	01:30pm	20%
Final Exam	Ba	40%			

Evaluation

Assessment Task	Proportion of Assessment
Homework Assignment	10%
Quizzes	10%
First Midterm Exam	20%
Second Midterm Exam	20%
Final Exam	40%
Total	100%

Attendance Policy

• Regular and punctual attendance at all scheduled classes is expected from all students.

• Students may be denied entry to the final exam if they miss more than 25% of classes.

*This syllabus is subject to change by the Quantitative Analysis Department only at any time. Changes, if any, will be announced in class. Students will be held responsible for all changes.



<u>Course outline</u>

• Content of the Course and lectures Plan

Chapters	Contents	Weeks	
-		Dates	Exams
Ch. 7	7.1 Sampling Distribution	2 Weeks	
Sampling	7.2 Sampling Distribution of the Mean	(17Jan	C
Distributions	7.3 Sampling Distribution of the Proportion.	28Jan.)	ove ex
Ch. 8	8.1 Confidence Interval for the Mean (σ Known)		ree
Confidence	8.2 Confidence Interval for the Mean (σ Unknown)	31 Jan11	n &
Interval	8.3 Confidence Interval for the Proportion	Feb.)	y F 7 F
Estimation.	8.4 Determining Sample Size		Covered by First midterm exam & Final exam
Ch. 9	9.1 Fundamentals of Hypothesis-Testing Methodology		t n l e
Fundamentals of	9.2 t Test of Hypothesis for the mean (σ Unknown)	2 Weeks	nid Xan
Hypothesis		(14 Feb	n n
Testing: One-		25Feb.)	m
Sample Tests			
	First Midterm (20 points) 07/03/2021	-	
Ch. 9	9.3 One-Tail Tests	1Week	
Fundamentals of	9.4 Z Test of Hypothesis for the Proportion	(28 Feb	C
Hypothesis		4March.)	DVE
Testing: One-			ex:
Sample Tests			d b am
•	10.1 Comparing the Means of Two Independent	4 Weeks	Covered by Second midterm exam & Final exam
	Populations (352 omitted)	(7 March	iec Fii
Ch. 10	10.2 Comparing the Means of Two Related Populations	1 April.)	one nal
Two-Sample	Paired t Test.		d n ex
Tests and One-	10.3 Comparing the Proportions of Two Independent		nid an
Way ANOVA	Populations.		lteı
•	10.4 F Test for the Ratio of Two Variances.		m
	10.5 One-Way AN OVA <u>.(381 to 386 omitted)</u>		
	Second Midterm (20 points) 28/03/2021		
Ch. 11	11.1 Chi-Square Test for the Difference Between Two	1 Week	
Chi-Square	Proportions.	(4 April-	Cov
Tests	11.2 Chi-Square Test for Differences Among More Than	8April)	ver
	Two Proportions.		ed
	11.3 Chi—Square Test of Independence.		by
Ch. 12	12.1 Types of Regression Models.	2 Weeks	ered by Final exam
Simple Linear	12.2 Determining the Simple Linear Equation.	(11 April	na
Regression	12.3 Measures of Variation.	22 April.)	l ez
	12.7 Inferences About the Slope and Correlation		Kar
	Coefficient(464 omitted)		n
	Final Exam (40 points) Based on University Schedule		
	That Exam (40 points) Dased on Oniversity Schedule		



Required Materials

- Title: Business Statistics: A First Course, 7th Global Edition, Pearson
- Authors: Levine, Szabat, and Stephan
- Textbook ISBN-13: 978-1-292-09593-6
 - Required Chapters: 7, 8, 9, 10, 11, and 12

MyLab Statistics

- In order to be able to work on the Study Plan, Homework, Quiz; the student **MUST** purchase MyLab Statistics Access Code (which will INCULDE the eTextbook), if you fail to do so you will lose up to 20% of total course credit.
- MyLab Statistics is a platform that is connected to the student's LMS to enrichen the learning experience. It provides the student with access to the eTextbook, Example, and other multimedia material.

Learning Management System Support (Blackboard Support)

- Webpage: <u>https://daleel.ksu.edu.sa/ar</u>
- **Tel#:** 00966 11 4677297
- **Tel#:** 00966 11 4675557
- Email: <u>itsupport@ksu.edu.sa</u>

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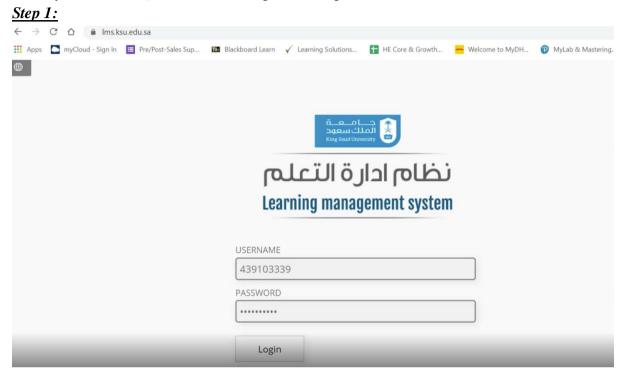
- **Student Fund Market** webpage <u>direct link: https://salla.sa/student_fund/my-lab-statistics-a-first-course-global-7th-edition/p2130282455</u>
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Activate your MyLab Statistics Code

In order to activate Code, You have to connect through your LMS.KSU.EDU.SA page and Select your section QUA_207, following these steps:



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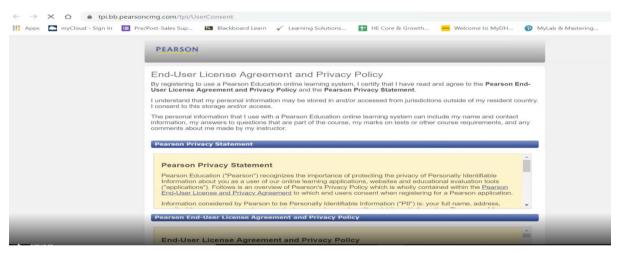
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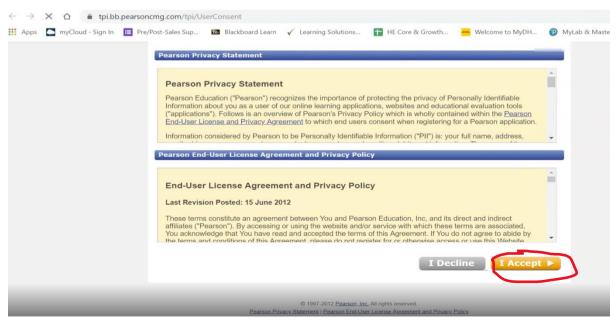
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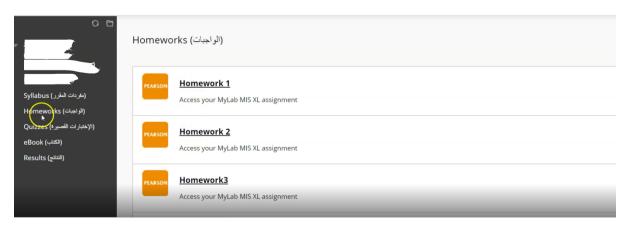
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<u>Step 13:</u>

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Practice Exercises Information